

AMENDMENT AND PRESENTATION OF CLAIMS

Please replace all prior claims in the present application with the following claims.

1. (Currently Amended) A method comprising:

determining a markup-language ~~Web~~ web service message at a first network entity usable to

invoke a remote procedure call at a second network entity, wherein the ~~Web~~ web service

message includes a variant portion that changes for repeated invocations of the remote

procedure call and an invariant portion that does not change for the repeated invocations

of the remote procedure call;

forming a reduced message at the first network entity based on at least an unreduced

representation of the variant portion of the ~~Web~~ web service message and a reduced

representation of the invariant portion of the ~~Web~~ web service message; and

causing, at least in part, sending the reduced message targeted for the second network entity

via a ~~network~~ network, and causing, at least in part, to process the invocation of the

remote procedure call at the second network entity based on the reduced message.
2. (Currently Amended) The method according to Claim 1, wherein the ~~Web~~ web service
message comprises a simple object access protocol message.
3. (Currently Amended) The method according to Claim 1, wherein forming the reduced
message comprises forming reference data based on the invariant portion of the ~~Web~~ web service
message and including the reference data in the reduced message.

4. (Original) The method according to Claim 3, wherein the reference data comprises a binary representation of the invariant portion.

5. (Original) The method according to Claim 3, wherein the reference data comprises a reference to a data store containing criteria for creating a reproduction of the invariant portion.

6. (Original) The method according to Claim 5, wherein the reference to the data store comprises a Universal Resource Identifier (URI).

7. (Currently Amended) The method according to Claim 1, wherein ~~invoking~~causing the invocation of the remote procedure call at the second network entity based on the reduced message comprises:

forming a reproduction of the ~~Web~~ web service message based on the reduced message; and
processing the reproduction of the ~~Web~~ web service message at the second network entity.

8. (Currently Amended) The method according to Claim 7, wherein forming the reduced message comprises forming reference data based on an invariant portion of the ~~Web~~ web service message and including the reference data in the reduced message.

9. (Currently Amended) The method according to Claim 8, wherein forming the reproduction of the ~~Web~~ web service message comprises forming the reproduction of the ~~Web~~ web service message from a reproduction of the invariant portion of the ~~Web~~ web service message.

10. (Previously Presented) The method according to Claim 8, wherein the reference data comprises a binary representation of the invariant portion.

11. (Previously Presented) The method according to Claim 8, wherein the reference data comprises a reference to a data store containing criteria for creating a reproduction of the invariant portion.

12. (Original) The method according to Claim 11, wherein the reference to the data store comprises a Universal Resource Identifier (URI).

13. (Currently Amended) A messaging system, comprising:

- a first data processing arrangement configured to determine a markup-language ~~Web~~ web service message usable to invoke a remote procedure call via a network, wherein the ~~Web~~ web service message includes a variant portion that changes for repeated invocations of the remote procedure call, and an invariant portion that does not change for the repeated invocations of the remote procedure call, the first data processing arrangement further configured to form and transmit, via the network, a reduced message based on at least an unreduced representation of the variant portion of the ~~Web~~ web service message and a reduced representation of the invariant portion of the ~~Web~~ web service message;
- a message processing arrangement coupled to receive the reduced message and transmit a reproduction of the ~~Web~~ web service message based on the reduced message; and

a second data processing arrangement coupled to receive the reproduction of the ~~Web~~ web service message and process the remote procedure call based on the reproduction of the ~~Web~~ web service message.

14-16. (Canceled)

17. (Currently Amended) A messaging system, comprising:

a first data processor configured to transmit a markup-language ~~Web~~ web service message to invoke a remote procedure call via a network, the ~~Web~~ web service message including a variant portion that changes for repeated invocations of the remote procedure call, and an invariant portion that does not change for the repeated invocations of the remote procedure call;

a message processor configured to receive the ~~Web~~ web service message, form a reduced message based on at least an unreduced representation of the variant portion of the ~~Web~~ web service message and a reduced representation of the invariant portion of the ~~Web~~ web service message, and transmit the reduced message to invoke the remote procedure call;

a second data processor configured to receive the reduced message and process the remote procedure call based on the reduced message.

18. (Canceled)

19. (Currently Amended) The messaging system according to Claim 17, wherein the second data processor is further configured to form a reproduction of the ~~Web~~ web service message based on the reduced message and transmit the reproduction of the ~~Web~~ web service message, the messaging system further comprising a third data processor configured to receive the reproduction of the ~~Web~~ web service message and process the remote procedure call based on the reproduction of the ~~Web~~ web service message.

20. (Currently Amended) The messaging system according to Claim 17, further comprising a data storage device having a criteria accessible by the message processor, the criteria used by the message processor to form the reduced message based at least on the variant portion of the ~~Web~~ web service message.

21. (Currently Amended) An apparatus comprising:

~~a transceiver configured to facilitate exchanges with a network element to invoke a remote procedure call; and~~

~~a~~ at least one processor; and

at least one memory including computer program instructions, ~~processor coupled to the transceiver and~~

the at least one memory and the computer program instructions configured via instructions ~~to~~ configured to, with the at least one processor, cause the apparatus to perform at least ~~to~~ the following:

determine a markup-language ~~Web~~ web service message usable to invoke ~~the a~~ a remote procedure call, wherein the ~~Web~~ web service message includes a variant portion that

changes for repeated invocations of the remote procedure call, and an invariant portion that does not change for the repeated invocations of the remote procedure call; form an outgoing reduced message based on at least an unreduced representation of the variant portion of the ~~Web~~ web service message and a reduced representation of the invariant portion of the ~~Web~~ web service message; and send the reduced message targeted for ~~the~~ a network element to cause, at least in part, the invocation of~~process~~ the remote procedure call based on the reduced message.

22. (Currently Amended) The apparatus according to Claim 21, wherein the ~~Web~~ web service messages include simple object access protocol messages.

23. (Currently Amended) A computer-readable storage medium ~~having~~ carrying one or more instructions stored thereon which are executable by an apparatus for performing which, when executed by one or more processors, cause an apparatus to at least perform the following steps:

determining a markup-language ~~Web~~ web service message at a first network entity usable to invoke a remote procedure call at a second network entity, wherein the ~~Web~~ web service message includes a variant portion that changes for repeated invocations of the remote procedure call and an invariant portion that does not change for the repeated invocations of the remote procedure call;

forming a reduced message at the first network entity based on at least an unreduced representation of the variant portion of the ~~Web~~ web service message and a reduced representation of the invariant portion of the ~~Web~~ web service message;

sending the reduced message targeted for the remote data processing arrangement;
causing, at least in part, invocation of the remote procedure call based on the reduced message; and
receiving a response message from the remote data processing arrangement in response to ~~an~~
the invocation of the remote procedure call based on the reduced message.

24. (Currently Amended) The computer readable storage medium according to Claim 23, wherein the response message comprises a reduced response message based on at least a variant portion of a ~~Web~~ web service response message generated by the remote data processing arrangement, wherein the variant portion of the Web service response message changes for the repeated invocations of the remote procedure call.

25. (Currently Amended) The computer readable storage medium according to Claim 24, wherein the instructions are further executable for performing:
forming a reproduction of the ~~Web~~ web service response message based on the reduced response message; and
processing the reproduction of the ~~Web~~ web service response message.

26. (Currently Amended) The computer readable storage medium according to Claim 23, wherein the ~~Web~~ web service message comprises a simple object access protocol message.

27. (Currently Amended) An apparatus, comprising:
at least one memory storing instructions; including computer program instructions; and

~~a processor~~ at least one processor;

the at least one memory and the computer program instructions configured to, with the at least one processor, coupled to the memory and configured via the instructions to cause the apparatus to perform at least to: the following:

receive a reduced message via a network based on at least an unreduced representation of

a variant portion of a ~~Web~~ web service message and a reduced representation of an invariant portion of the ~~Web~~ web service message, wherein the ~~Web~~ web service message originates from a first terminal and is targeted to invoke a remote procedure call at a second terminal, wherein the variant portion of the ~~Web~~ web service message changes for repeated invocations of the remote procedure call, and the invariant portion of the ~~Web~~ web service message does not change for the repeated invocations of the remote procedure call;

form a reproduction of the ~~Web~~ web service message based on the reduced message; and

send the reproduction of the ~~Web~~ web service message to the second terminal to invoke the remote procedure call.

28. (Currently Amended) The apparatus according to Claim 27, wherein the at least one memory and the computer program instructions configured to, with the at least one processor,~~processor~~ further ~~causes~~ cause the apparatus to access a data store containing criteria for forming the reproduction of the ~~Web~~ web service message based on the reduced message.

29. (Currently Amended) The apparatus according to Claim 27, wherein the ~~Web~~ web service message comprises a simple object access protocol message.

30. (Currently Amended) An apparatus comprising:

at least one processor;

at least one memory including computer program instructions; and

a mobile terminal,

the at least one memory and the computer program instructions configured to, with the at

least one processor, cause the apparatus to perform at least the following:

~~means for forming~~form an outgoing reduced message based on at least an unreduced representation of a variant portion of a markup language ~~Web~~ web service message and a reduced representation of an invariant portion of the ~~Web~~ web service message, wherein the ~~Web~~ web service message is determined at the mobile terminal in response to invoking a remote procedure call via a network, and wherein the ~~the~~-variant portion changes for repeated invocations of the remote procedure call, and the invariant portion does not change for the repeated invocations of the remote procedure call;

~~means for forming~~form a reproduced ~~Web~~ web service message based on incoming reduced messages from the network, wherein the incoming reduced message is formed based on at least an unreduced representation of an incoming variant portion of an external markup language ~~Web~~ web service message and a reduced representation of an invariant portion of the external ~~Web~~ web service message, wherein the external ~~Web~~ web service message is generated in response to invoking the remote procedure call, wherein the incoming variant portion of the external ~~Web~~ web service message changes for the repeated invocations of the remote procedure call, and wherein the invariant portion of the external ~~Web~~ web service message does not change for the repeated invocations of the remote procedure call;

~~means for processing~~process the reproduced ~~Web~~ web service messages; and
~~means for facilitating~~facilitate exchange of the incoming and outgoing reduced messages
with a network element to invoke the remote procedure call.

31. (Currently Amended) The apparatus of Claim 30, wherein the ~~Web~~ web service messages include simple object access protocol messages.

32. (Previously Presented) The apparatus of Claim 21, wherein the apparatus comprises a mobile terminal.

33. (Previously Presented) The apparatus of Claim 27, wherein the apparatus comprises a server.

34. (Previously Presented) The apparatus of Claim 30, wherein the apparatus comprises a mobile terminal.

35. (Currently Amended) The apparatus according to Claim 21, wherein the at least one memory and the and the computer program instructions configured to, with the at least one processor, ~~processor is further configured via the instructions to~~ cause the apparatus to form a reproduced ~~Web~~ web service message based on an incoming reduced message from the network, wherein the incoming reduced message is formed based on at least an unreduced representation of a variant portion of an external markup language ~~Web~~ web service message and a reduced representation of an invariant portion of the external ~~Web~~ web service message, wherein the variant portion of the external ~~Web~~ web service message changes for the repeated invocations of

the remote procedure call, and wherein the invariant portion of the external ~~Web~~ web service message does not change for the repeated invocations of the remote procedure call.

36. (Currently Amended) The apparatus according to Claim 21, wherein the reduced representation of the invariant portion of the ~~Web~~ web service message comprises reference data based on the invariant portion of the ~~Web~~ web service message.

37. (Previously Presented) The apparatus according to Claim 36, wherein the reference data comprises a binary representation of the invariant portion.

38. (Previously Presented) The apparatus according to Claim 36, wherein the reference data comprises a reference to a data store containing criteria for creating a reproduction of the invariant portion.